

OCT 29 1999

K992574

510(k) Summary of Safety and Effectiveness Information**Trimedyn[®] Holmium Laser System**

This summary of 510(k) safety and effectiveness information is being submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

I. Submitter Information: Trimedyn[®], Inc.
P.O. Box 57001
Irvine, CA 92619-7001

Contact person: Susan H. Gamble
Vice President, Regulatory Affairs and Quality

Summary Date: July 29, 1999

II. Device Name

Proprietary: Trimedyn[®] Holmium Laser System, including:

- Trimedyn[®] OmniPulse[™] Holmium Laser System (Model 1210)
- Trimedyn[®] OmniPulse[™]-MAX Holmium Laser System (Model 1210-VHP)
- Model 1500-A Holmium Laser System

Common: Holmium:Yttrium Aluminum Garnet (Holmium:YAG) Laser

Classification: Laser-Powered Instrument

III. Predicate Device

The predicate devices are:

1. Coherent VersaPulse Select Dual Wavelength Surgical Laser.
2. Trimedyn[®] Optilase[®] Model 1000-100 Nd:YAG Laser System.
3. Nortech Autolith Lithotripter Electro-Hydraulic System.

IV. Device Description

The Trimedyn[®] Holmium Laser System is a medical grade, Class IV, pulsed, solid state Holmium:YAG laser system designed to deliver pulsed infrared laser energy with a wavelength of 2.1 μm and up to 350 microseconds pulsewidth. Menu-driven control options allow the users to select pulse repetition rate, output energy, and lasing duration.

V. Intended Use

The Trimeddyne Holmium:YAG Laser System is intended for incision, excision, resection, ablation, vaporization, coagulation, and hemostasis in multispecialty applications, including dermatology and plastic surgery, discectomy, gastroenterological/ gastrointestinal surgery, general surgery, genitourinary surgery, lithotripsy, orthopedic surgery, endoscopic sinus surgery, and otorhinolaryngology surgery.

VI. Technological Characteristics

The laser system is a Holmium:YAG laser which emits light at a wavelength of 2.1 μm (near infrared) and a maximum pulsewidth of 350 microseconds. The laser has the capability of attaining a maximum output of 100 watts of power.

VII. Conclusions Drawn from Testing

The Trimeddyne Holmium:YAG Laser System can be used for the proposed indications.



Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

OCT 29 1999

Ms. Susan H. Gamble
Vice President, Regulatory Affairs and Quality
Trimedyn, Inc.
2801 Barranca Road
P.O. Box 57001
Irvine, California 92619

Re: K992574
Trade Name: Omni Pulse™ Holmium Laser System, Model 1210
Omni Pulse™ MAX Holmium Laser System, Model 1210-VHP
Model 1500-A Holmium Laser System
Regulatory Class: II
Product Code: GEX
Dated: July 29, 1999
Received: August 2, 1999

Dear Ms. Gamble:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4595. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,



for Celia M. Witten, Ph.D., M.D.
Director
Division of General and
Restorative Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

K 9925 74

Page 1 of 2 (revised)

510(k) Number (if known):

Device Name:

Trimedyn Holmium Laser System, including:

OmniPulse™ Holmium Laser System, Model 1210

OmniPulse™-MAX Holmium Laser System, Model 1210-VHP

Model 1500-A Holmium Laser System

Indications for Use:

Incision, excision, resection, ablation, vaporization, coagulation, and hemostasis, with or without an endoscope, in Gastroenterological/ Gastrointestinal Surgery, including: cholecystectomy, lysis of adhesions, appendectomy, biopsy, pylorostenotomy, benign and malignant lesions, rectal polyps of sigmoid colon, gall bladder calculi, biliary/bile duct calculi, benign and malignant neoplasm, polyps, colitis, ulcers, angiodysplasia, hemorrhoids, varices, esophagitis, esophageal ulcer, Mallory-Weiss tear, gastric ulcer, duodenal ulcer, non-bleeding ulcer, gastric erosions, colorectal cancer, gastritis, bleeding tumors, pancreatitis, vascular malformations, telangiectasias, and telangiectasias of the Osler-Weber-Rendu disease.

Incision, excision, resection, ablation, coagulation, hemostasis, and vaporization, with or without an endoscope, in the following indications:

Dermatology and Plastic Surgery of soft, mucosal, fatty, and cartilaginous tissues, with or without an endoscope, in therapeutic plastic, therapeutic dermatological and aesthetic surgical procedures, including: scars, tattoo removal, vascular lesions (including port wine stains, hemangioma, telangiectasia [facial, leg], and rosacea), corns, papillomas, and basal cell carcinomas.

General Surgery of soft tissues, including: skin incision, tissue dissection, excision of external tumors and lesions, complete or partial resection of internal organs, tumors and lesions, and tissue ablation.

(Continued on page 2)

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use



OR

Over-the-Counter Use

(Division Sign-Off)

Division of General Restorative Devices

510(k) Number

K 9925 74

Indications - continued

Page 2 of 2 (revised)

Genitourinary Surgery, including: superficial urinary bladder tumors, invasive bladder carcinoma, urethral strictures, and lesions of the external genitalia.

Gynecological Surgery during open and endoscopic procedures.

Lithotripsy and Percutaneous Urinary Lithotripsy, including: fragmentation of urinary calculi, fragmentation of urethral calculi, and fragmentation of kidney calculi.

Orthopedic Surgery in pathological soft and cartilaginous tissue in small and large joints, including: knee meniscectomy, knee synovectomy, chondromalacia and tears, loose body debridement, lateral retinacular release, and debridement of the degenerative knee.

Otorhinolaryngology (ENT) Surgery in soft, mucosal, cartilaginous and bony tissue, including: endosinus surgery, functional endoscopic sinus surgery, turbinate procedures (e.g., turbinectomy), and dacryocystorhinostomy (DCR).

Percutaneous Lumbar Discectomy, soft and cartilaginous tissue.